CLAIMS

- 1. Method for creating and managing a local network, this network comprising at least one restitution device for an encrypted data stream and a diffusion and reencrypting device for all or part of said encrypted data, said devices comprising security modules, the method comprising the following steps:
- connecting a master security module in one of the devices connected to the local network,
- establishing a network key by the master security module,
- securely transmitting this network key to one or several user security modules,
- decrypting encrypted data by the diffusion and re-encrypting device,
- re-encrypting of the data by said device with a local key,
- transmitting the re-encrypted data to the restitution device,
- decrypting by said restitution device thanks to the associated user security module, which disposes of means to find the local key.
- 2. Method for creating and managing a local network according to claim 1, wherein the local key is a randomly generated session key encrypted by the network key.
- 3. Method for creating and managing a local network according to claim 1, wherein the local key is the network key.
- 4. Method for creating and managing a local network according to claim 1, wherein the establishment of the network key is obtained by the pseudo-random generation of a key during the initialization of the local network.
- 5. Method for creating and managing a local network according to claim 1, wherein the establishment of the network key is carried out during an initialization step of the master module.
- 6. Method for creating and managing a local network according to claim 1, wherein the master module is placed in a removable security module.
- 7. Method for creating and managing a local network according to claim 6, wherein said removable security module comprises a user module forming part of the network administrated by the master module.

- 8. Method for creating and managing a local network according to claim 1, wherein the user security modules are in the form of an electronic circuit mounted during the manufacture of the restitution device.
- 9. Method for creating and managing a local network according to claim 1, wherein the user security module is in the form of a removable security module.
- 10. Method for creating and managing a local network according to claim 1, wherein the diffusion and re-encrypting device includes a security module, called converter module, said module receives and keeps an identifier of the master module that created the network, the converter module re-encrypting the data for said network.
- 11. Method for creating and managing a local network according to claim 10, wherein said master module identifier is transmitted to a management center during a connection step to said management center.